CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/CEMENT/2017-18 Date: 17.05.2017

TEST REPORT ON CEMENT

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of Work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Cement – Sample 2
Sample Received on	:	16.05.2017
Period of Testing	:	16.05.2017 to 17.05.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VIDYARANI P.K.
Technical Manager

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Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/SAND-Gradation/2017-18 17.05.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of Work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Fine Aggregates – Sample 2
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	16.05.2017
Date of Testing	:	17.05.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	80.30	60-95	75-100	85-100	95-100
1.18	61.30	30-70	55-90	75-100	90-100
600 Micron	41.30	15-34	35-59	60-79	80-100
300 Micron	22.80	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/AGG/GR/2017-18 17.05.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of Work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Coarse Aggregates (40mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	16.05.2017
Date of Testing	:	17.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.28	95-100	85-100
20	34.72	30-70	0-20
10	18.68	10-35	0-5
4.75	4.38	0-5	-

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Remarks : This sample is under graded specific limits.

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of Work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Coarse Aggregates (20mm) – Sample 2
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	16.05.2017
Date of Testing	:	17.05.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.74	95-100	85-100
10	30.76	25-55	0-20
4.75	4.78	0-10	0-5

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Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KPK/W.No.15/Steel/2017-18 17.05.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	17.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.15	O.K	O.K

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* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	17.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	524	566	13.35	O.K	O.K

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* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	17.05.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	528	570	13.5	O.K	O.K

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Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/Cube/2017-18 16.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of the work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.05.2017	16.06.2017	8.162	478.3	21.26
2	19.05.2017	16.06.2017	8.299	490.2	21.79
3	19.05.2017	16.06.2017	8.395	512.5	22.78

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2017	19.06.2017	8.133	502.2	22.32
2	22.05.2017	19.06.2017	8.262	513.2	22.81
3	22.05.2017	19.06.2017	8.393	528.9	23.51

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Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/Cube/2017-18

28.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of the work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Road Side Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.06.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.05.2017	28.06.2017	8.150	505.3	22.46
2	31.05.2017	28.06.2017	8.280	516.2	22.94
3	31.05.2017	28.06.2017	8.390	525.8	23.37

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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VIDYARANI P.K.
Technical Manager

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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T-2377

Job No.: CTCE/BBMP/KPK/W.No.15/CSR-05/337e/Precast slab/2017-18 05.06.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Assistant Executive Engineer,** T. Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. K. Pavankumar,** No.45, 3rd Block, 3rd Stage, SG Halli, Basaveshwara Nagara, Bangalore – 79.
* Name of work	:	Improvements & construction of CC Roads MTS Colony cross roads at T. Dasarahalli in Ward No 15, Dasarahalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/TDSD/PR/78/2017-18 Dated : 16.05.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	02.06.2017
Date of Testing	:	05.06.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	32.55	16.58	17.90	18.75	23.44
2	50.00	80.00	0.396	2521.01	1.60	0.957	33.65	17.14	18.51	17.71	22.14
3	50.00	81.00	0.402	2527.62	1.62	0.959	33.90	17.27	18.65	17.88	22.35

* Information is furnished by the Customer/Representative

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